

Notice of Allowability

Application No.

10/019,853

Examiner

Myles D. Robinson

Applicant(s)

KOWALSKI ET AL.

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/26/2007.
2. ☒ The allowed claim(s) is/are 16 - 19, 21 - 24 and 26 - 28.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

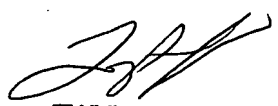
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20070912.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


TWYLER LAMB
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Response to Amendment

1. Applicant's amendment was received on 7/26/2007, and has been entered and made of record. Currently, **claims 16 – 19 and 21 – 28** are pending.

Response to Arguments

2. Applicant's arguments (*see Remarks 7/26/2007 [page 7] and Remarks 2/1/2007 [page 7]*) with respect to **claims 16 – 19 and 21 – 28** have been fully considered and are persuasive. The rejections of these claims have been withdrawn.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Melvin Robinson on 9/13/2007.

The application has been amended as follows:

4. **Claim 16:** A computer-implemented method for signature-by-signature editing of print data, the method being performed by a computer executing a computer program

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having a data structure stored on a tangible computer readable medium, comprising the steps of:

editing the print data for printing on a web-shaped recording medium in a logical page sequence corresponding to at least one signature, said at least one signature forming a section of a printed product and including a plurality of pages;

defining at least one parameter of said recording medium on which the print data are printed and that is relevant for a position of a print image on the recording medium folded in signatures;

implementing a position correction of the respective print image on the pages before printing dependent on said at least one parameter; and

computationally simulating folds of said recording medium needed for producing said at least one signature with assistance of the [[a]] computer program so that the print images of successive pages of the folded signature lie exactly registered above one another, the folds ensue in two directions perpendicular to one another, and said position correction ensues in the two directions perpendicular to one another, the print data being provided on said recording medium, said step of computationally simulating performing simulating of the folds of the signature for said position correction; and

calculating correction values for the print image of a page from an influence of each fold on a print image of at least one page;

said simulating step simulating the folds for said position correction page-by-page with ascending or descending page number, and

forming pairs of successive page numbers that due to the signatures at least one of: come to lie on one another as a result of a fold, and between which a fold is provided due to the signature.

5. **Claim 21:** A printing system, comprising:

at least one computer; and

a printer device connected to said at least one computer;

a computer program including a data structure stored on a tangible computer readable medium and executable by said at least one computer for implementing steps of:

editing the print data for printing on a web-shaped recording medium in a logical page sequence corresponding to at least one signature, said at least one signature forming a section of a printed product and including a plurality of pages;

defining at least one parameter of said [[a]] recording medium on which the print data are printed and that is relevant for a position of a print image on the recording medium folded in signatures;

implementing a position correction of the respective print image on the pages before printing dependent on said at least one parameter; and

computationally simulating folds of said recording medium needed for producing said at least one signature with assistance of the [[a]] computer program so that the print images of successive pages of the folded signature lie

exactly registered above one another, the folds ensue in two directions perpendicular to one another, said simulating folds being implemented page by page, and

said position correction ensues in the two directions perpendicular to one another, the print data being provided on said recording medium.

6. **Claim 24:** A computer program product including a computer program as a data structure stored on a tangible computer readable medium and executable on a computer for implementing steps of:

editing the print data for printing on a web-shaped recording medium in a logical page sequence corresponding to at least one signature, said at least one signature forming a section of a printed product and including a plurality of pages;

defining at least one parameter of said [[a]] recording medium on which the print data are printed and that is relevant for a position of a print image on the recording medium folded in signatures;

implementing a position correction of the respective print image on the pages before printing dependent on said at least one parameter; and

computationally simulating folds of said at least one sheet needed for producing said at least one signature with assistance of the computer program so that the print images of successive pages of the folded signature lie exactly registered above one another, the folds ensue in two directions perpendicular to one another, and said position correction ensues in the two directions perpendicular to one another, said

simulating folds being implemented page by page in ascending or descending page sequence, the print data being provided on said recording medium.

7. **Claim 25: CANCELLED**

8. **Claim 26:** A computer on which a computer program product stored on a tangible computer readable medium and having a data structure that is executable on the computer is loaded into the computer to perform the steps of:

editing the print data for printing on a web-shaped recording medium in a logical page sequence corresponding to at least one signature, said at least one signature forming a section of a printed product and including a plurality of pages;

defining at least one parameter of said recording medium on which the print data are printed and that is relevant for a position of a print image on the recording medium folded in signatures;

implementing a position correction of the respective print image on the pages before printing dependent on said at least one parameter; and

computationally simulating folds of said recording medium needed for producing said at least one signature with assistance of the [[a]] computer program so that the print images of successive pages of the folded signature lie exactly registered above one another, the folds ensue in two directions perpendicular to one another, and said position correction ensues in the two directions perpendicular to one another, said

simulating folds being implemented page by page in ascending or descending page sequence, the print data being provided on said recording medium.

REASONS FOR ALLOWANCE

9. ***Claims 16 – 19 and 21 – 24 and 26 – 28*** are allowed.

Referring to **claims 16, 21, 24 and 26**, the innovative limitation that distinguishes the Applicant's claim is automatically performing position correction of shifts page-by-page of pages to be printed on a web-shaped recording medium (see *Remarks 7/26/2007 [page 7, lines 14 – 25], Remarks 2/1/2007 [page 7, lines 4 – 18] and Remarks 2/9/2007 [page 6]*).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myles D. Robinson whose telephone number is (571) 272-5944. The examiner can normally be reached on M-F 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



MDR

9/13/07



TWYLER LAMB
SUPERVISORY PATENT EXAMINER